## IN THE CLAIMS

Please amend the claims to read as indicated herein.

Please cancel claims 4, 5, 7 and 10

1. (currently amended) A method of detecting a selected portion preamble of a data packet formatted to conform to a wireless communications standard, comprising the steps of:

defining a reference <u>cosine</u> signal waveform-<del>conforming to an expected waveform</del>

representing a signal modulated in accordance with a selected portion of a data

packet;

receiving a data signal containing a data packet with said selected portionsaid preamble; deriving a waveform representing said data signal containing said preamble;

correlating said reference <u>cosine</u> signal waveform with said waveform representing said data signal <u>containing said preamble</u> to produce a correlation result;—and

identifying said selected portion preamble in said data signal in accordance with said correlation result-; and

comparing a part of the data packet other than said preamble with a predetermined criterion, and confirming identification of said preamble in accordance with the result of such comparison.

- 2. (original) The method of claim 1, wherein said waveform representing said data signal is derived to represent a characteristic of modulation of said data signal in accordance with data in said data packet.
- 3. (original) The method of claim 2, wherein said data signal is a frequency-shift keyed signal and said waveform representing said data signal is derived to represent frequency deviation of said data signal as a function of time.
  - 4. (canceled)

- 5. (canceled)
- 6. (currently amended) The method of claim 1, wherein said data packet wireless communications standard is a Bluetooth data packet wireless communications standard.
  - 7. (canceled)
- 8. (currently amended) The method of claim 61, wherein the part of the data packet other than said preamble comprises a portion of a sync word in the data packet is examined to confirm identification of said preamble.
- 9. (currently amended) The method of claim 8, wherein the <u>part of the data packet other</u> than said preamble comprises six most significant bits of the sync word-are examined to confirm identification of said preamble.
  - 10. (canceled)

Please add the following claim, newly numbered as claim 11.

- 11. (new) An apparatus for detecting a preamble of a data packet formatted to conform to a wireless communications standard, comprising:
  - a waveform generator for defining a reference cosine signal waveform;
  - a receiver for receiving a data signal containing said preamble, and for deriving a waveform representing said data signal containing said preamble; and
  - a correlator for correlating said reference cosine signal waveform with said waveform representing said data signal containing said preamble to produce a correlation result, identifying said preamble in said data signal in accordance with said correlation result, comparing a part of the data packet other than said preamble with a predetermined criterion, and confirming identification of said preamble in accordance with the result of such comparison.